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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,186	04/01/2004	Heung-Lyul Cho	0630-1978P	0630-1978P 6423	
2292	7590 08/16/2006		EXAMINER		
	WART KOLASCH & B	BRYANT, I	BRYANT, DELORIS S		
PO BOX 747 FALLS CHUR	RCH, VA 22040-0747	ART UNIT	PAPER NUMBER		
	,	2813			
			DATE MAILED: 08/16/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Tolera Examiner			Application	n No.	Applicant(s)			
Deloris Bryant	Office Action Summary		10/814,18	6	CHO ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. E-tentions of term says be waited under the providers of 37 CFR 1.13(a), his cevent, hewever, may a reply be timely filed at the SIX (6) MONTHS from the mailing date of this communication, and the six (6) MONTHS from the mailing date of this communication. Fallus to received by the Office later than these months after the mailing date of this communication, even if timely filed, may reduce any senter optamic time adjustment. Set 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 06 July 2006. 2a) ☑ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 1-13 is/are allowed. 6) □ Claim(s) 1-13 is/are allowed. 6) □ Claim(s) 1-13 is/are allowed. 7) □ Claim(s) is/are vice to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 01 April 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.84(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C.			Examiner		Art Unit			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. □ Extractions of time may be available under the provisions of 37 CFR 1.13(s). In or event, however, may a reply be timely filled to the provision of the major of the major of the provisions of 37 CFR 1.13(s). In or event, however, may a reply be timely filled to 11 th Open do for reply symbol below, the maximum studnoy period was \$2(s) MONTHS from the mailing date of this communication. Failure to reply will be not to extended period for reply will be provided by the Office after then the rew embrod later the mailing date of this communication, even if timely filled, may reduce any seamed patient turn adjustment. See 37 CFR 1.70(4b). Status 1) ☑ Responsive to communication(s) filled on 06 July 2006. 2a) ☑ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1-12 is/are pending in the application. 4a) ② If the above claim(s) ☐ is/are withdrawn from consideration. 5) ☑ Claim(s) 1-13 is/are allowed. 6) ☑ Claim(s) 1-13 is/are allowed. 7) ☐ Claim(s) ☐ is/are objected to. 8) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) ☐ is/are objected to set examiner. Application Papers 9) ☐ The specification is objected to by the Examiner. Application Papers 9) ☐ The specification is objected to by the Examiner. Application Papers 9) ☐ The orderwing(s) filled on 01 April 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Application Papers 9) ☐ The specification is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None o			Deloris Bry	ant	2813			
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Paper No(s)/Mail Date 6) Other:	1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO-1449 or PTO		Paper No(s)/Mail Da 5) Notice of Informal F	ate	O-152)		

DETAILED ACTION

Applicant's response to non-final rejection dated July 6, 2006 along with a translation of the priority document is hereby acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Wong (US 6,545,293). Wong discloses a method for manufacturing a semiconductor device comprising (Fig. 4D-4E): providing a substrate (41); forming a photoresist layer (60) over the substrate (41); forming a conductive layer (62) over the photoresist layer (60); and simultaneously removing the photoresist layer and the conductive layer (col. 3, lns 52-55).

Regarding claim 17, Wong discloses the step of simultaneously removing the photoresist layer and the conductive layer is performed by etching (col. 3, lns 52-55).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wong (US 6,545,293) in view of Cleeves (US 6,004,874). Wong discloses all claim limitations as set forth in claim 14 but fails to disclose wherein the photoresist is either a positive or negative photoresist. Cleeves does disclose that the photoresist can be either positive or negative (col. 5, lns 41-52). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to use either a positive or negative photoresist so that there is more control over the region covered with the photoresist upon further development steps in the manufacturing process.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wong (US 6,545,293) in view of Jen (US 6,274,400). Wong discloses all claim limitations set forth in claim 14 but fails to disclose wherein the conductive layer is formed from a metal or metal oxide. Jen, however, does disclose that the conductive layer is formed of a metal (col. 3, Ins 48-67). It would have been obvious to one of ordinary skill in the art at

the time of applicant's invention to use one of the metals mentioned by Jen with the invention of Wong for the conductive properties any one of those metals contain.

Allowable Subject Matter

Claims 1-13 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach or fairly suggest, in combination with the other claimed limitations, depositing a photoresist over an active layer, performing a photolithography process and subsequently removing the active layer at the source/drain region.

Response to Arguments

Applicant's arguments with respect to claims 14-17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deloris Bryant whose telephone number is (571) 272-8670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CARL WIJITEHEAD, JR.
SUPERMSORY PATENT EXAMINER
TECHNOLOGY CENTER 2800